



MATERIAL SAFETY DATA

MSDS No: 0613
CAS No: 038916-42-6
Date: 02/15/94
Supersedes: 12/17/93

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **AERO® 845 Promoter**

SYNONYMS: Tetrasodium N-(1,2-dicarboxyethyl)-N-octadecyl sulfosuccinamate

CHEMICAL FAMILY: Ester/Amide

MOLECULAR FORMULA: C₂₆H₄₃O₁₀NSNa₄ (active ingredient)

MOLECULAR WGT: 653; (Active ingredient)

CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA, WEST PATERSON, NEW JERSEY 07424, USA - 201/357-3100

EMERGENCY PHONE: For emergency involving spill, leak, fire, exposure or accident call CHEMTREC: 1-800/424-9300. Outside the USA and Canada call 202/483-7616.

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS

COMPONENT	CAS. NO.	%	TWA/CEILING	REFERENCE
Ethanol	000064-17-5	<5.00	1000 ppm	OSHA/ACGIH

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR: Clear to slightly cloudy tan liquid; mild, soap-like odor

STATEMENTS OF HAZARD:

CAUTION! MAY CAUSE EYE AND SKIN IRRITATION
COMBUSTIBLE LIQUID AND VAPOR

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:

The acute oral (rat) and acute dermal (rabbit) LD₅₀ values are 18.7 ml/kg and >10 ml/kg respectively. The estimated 4 hour acute inhalation LC₅₀ is 20 mg/L. No skin sensitization was produced during a repeated insult patch test with human subjects.

Direct contact with this material may cause mild eye and skin irritation.

Refer to Section 11 for toxicology information on the OSHA regulated components of this product.

4. FIRST AID MEASURES

In case of skin contact, wash affected areas of skin with soap and water.

In case of eye contact, immediately irrigate with plenty of water for 15 minutes.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 129 F; 54 C

METHOD: Pensky-Martens Closed Cup

FLAMMABLE LIMITS

(% BY VOL): Not available

AUTOIGNITION TEMP: Not available

DECOMPOSITION TEMP: Not available

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective. Use water to keep containers cool. Wear self-contained, positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove sources of ignition.

Where exposure level is not known, wear NIOSH approved, positive pressure, self-contained respirator. Where exposure level is known, wear NIOSH approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impervious boots. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush area with water.

7. HANDLING AND STORAGE

Keep away from heat and flame. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Areas containing this material should have fire-safe practices and electrical equipment in accordance with Electrical and Fire Protection Codes (NFPA-30) governing Class II Combustible Liquids. The product should be stored above 50 F (10 C) in order to prevent separation (gel layer on bottom of drum).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT (PPE)

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves and apron are recommended to prevent skin contact. For operations where eye or face contact can occur, wear eye protection such as chemical splash-proof goggles or face shield. Where exposures are below the Permissible Exposure Limit (PEL), no respiratory protection is required. Where exposures exceed the PEL, use respirator approved by NIOSH for the material and level of exposure. See "GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION" (NIOSH).

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear to slightly cloudy tan liquid; mild, soap-like odor

BOILING POINT: 173 F; 78 C; (value for ethanol/water)

MELTING POINT: Separates below 10 C

VAPOR PRESSURE: Not available

SPECIFIC GRAVITY: 1.12

VAPOR DENSITY: Not available

% VOLATILE (BY WT): 65

pH: 7-8

SATURATION IN AIR (% BY VOL): Not available

EVAPORATION RATE: Not available

SOLUBILITY IN WATER: Complete

10. STABILITY AND REACTIVITY

STABILITY: Stable

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CONDITIONS TO AVOID: None known

POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, oxides of nitrogen and/or oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION. Toxicological information on the OSHA regulated components of this product is as follows:

Ethanol has acute oral (rat) and dermal (rabbit) LD50 values of 7060 mg/kg and 20,000 mg/kg, respectively. The 10-hour inhalation LC50 for ethanol in rats is 20,000 ppm. Ethanol is a potent teratogen associated with abnormal fetal formation, growth retardation, neurological damage, and behavioral alterations in children with fetal alcohol syndrome.

12. ECOLOGICAL INFORMATION

No aquatic LC50, BOD, or COD data available.

OCTANOL/H₂O PARTITION COEF.: Not available

13. DISPOSAL CONSIDERATIONS

Disposal must be made in accordance with applicable governmental regulations.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

SHIPPING NAME:	D.O.T. SHIPPING INFORMATION FLAMMABLE LIQUID, N.O.S.	IMO SHIPPING INFORMATION FLAMMABLE LIQUID, N.O.S.
HAZARD CLASS/ PACKING GROUP:	3 III	3.3 III
UN NUMBER:	UN1993	1993
IMDG PAGE:	Not Applicable	3345
D.O.T. HAZARDOUS SUBSTANCES:	(PRODUCT REPORTABLE QUANTITY) Not Applicable	Not Applicable
TRANSPORT LABEL REQUIRED:	Flammable Liquid	Flammable Liquid
SHIPPING NAME:	ICAO/IATA FLAMMABLE LIQUID, N.O.S.	TRANSPORT CANADA FLAMMABLE LIQUID, N.O.S.
HAZARD CLASS:	3	3
SUBSIDIARY CLASS:	—	—, —

UN / ID NUMBER:	1993	1993
PACKING GROUP:	III	III
TRANSPORT LABEL REQUIRED:	Flammable Liquid	Flammable Liquid
PACKING INSTR:	PASSENGER 309 CARGO 310	Not Applicable
MAX NET QTY:	PASSENGER 60L CARGO 220L	Not Applicable

ADDITIONAL TRANSPORT INFORMATION

TECHNICAL NAME (N.O.S.): (Contains ethanol)

15. REGULATORY INFORMATION**INVENTORY INFORMATION**

US TSCA:	This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C.
CANADA DSL:	Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.
EEC EINECS:	All components of this product are included on the European Inventory of Existing Chemical Substances [EINECS] in compliance with Council Directive 67/548/EEC, Amended 79/831/EEC.

OTHER ENVIRONMENTAL INFORMATION

The following components are defined as toxic chemicals subject to reporting requirements of Section 313 of Title III and of 40 CFR 372 or subject to other EPA regulations.

COMPONENT	CAS. NO.	%	TPQ(lbs)	RQ(lbs)	S313	RCRA	TSCA 12B
This product does not contain any components regulated under these sections of the EPA							

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA

ACUTE (N)	CHRONIC (N)	FIRE (Y)	REACTIVE (N)	PRESSURE (N)
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16. OTHER INFORMATION**NFPA HAZARD RATING (National Fire Protection Association)**

Fire 2	FIRE: Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
Health 1 —	HEALTH: Materials which on exposure would cause irritation but only minor residual injury even if no treatment is given.
0 Reactivity Special	REACTIVITY: Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.

REASON FOR ISSUE:

Revised Section 14

Marvin A. Friedman, Ph.D., Director of Toxicology and Product Stewardship

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